

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) A computer readable recording medium having a data structure for managing reproduction of video data ~~recorded on the recording medium~~, comprising:

 a data area storing multi-path video data corresponding to a plurality of reproduction paths forming different versions of one title to be reproduced exclusively,

 wherein the plurality of reproduction paths include a first reproduction path forming a first version of one title and a second reproduction path forming a second version of one title, and at least a portion of the first and second reproduction paths are configured in parallel so either the first or the second reproduction path is reproduced when a version is reproduced ~~the first reproduction path is not reproduced during reproduction of the second reproduction path and the second reproduction path is not reproduced during reproduction of the first reproduction path~~,

 wherein the first reproduction path and the second reproduction path include a common path portion referring a same clip file; and

 a navigation information area storing playlists including reproduction information of the multi-path video data,

 wherein the number of the playlists is the same as the number of the reproduction paths of the multi-path video data.

2. (Previously Presented) The computer readable recording medium of claim 1, wherein each of the playlists is associated with all of clip files for one path of the plurality of reproduction paths.

3. (Cancelled)

4. (Previously Presented) The computer readable recording medium of claim 1, wherein each of the playlists includes a plurality of playitems, different playitems included in the different playlists identifies the same clip file referred by the common path portion of the plurality of reproduction paths.

5. (Currently Amended) A computer readable recording medium having a data structure for managing reproduction of video data ~~recorded on the recording medium~~, comprising:

a data area storing multi-path video data corresponding to a plurality of reproduction paths forming different versions of one title to be reproduced exclusively,

wherein the plurality of reproduction paths include a first reproduction path forming a first version of one title and a second reproduction path forming a second version of one title, and at least a portion of the first and second reproduction paths are configured in parallel so either the first or the second reproduction path is reproduced when a version is reproduced ~~the first reproduction path is not reproduced during reproduction of the second reproduction path and the second reproduction path is not reproduced during reproduction of the first reproduction path~~,

wherein the first reproduction path and the second reproduction path include a common path portion referring a same clip file; and

a navigation information area storing a playlist including reproduction information of the multi-path video data,

wherein the playlist includes a plurality of playitems identifying a plurality of different clip files of the multi-path video data for different reproduction paths, respectively.

6. (Currently Amended) The computer readable recording medium of claim 5, wherein ~~the playlist further includes at least one of the plurality of playitems~~ ~~playitem~~ identifying the clip file referred by the common path portion of the plurality of reproduction paths.

7. – 14. (Cancelled)

15. (Currently Amended) A method for recording a data structure for managing reproduction of video data on a recording medium, the method comprising:

recording multi-path video data in a data area on the recording medium so as to correspond to a plurality of reproduction paths forming different versions of one title to be reproduced exclusively,

the plurality of reproduction paths including a first reproduction path forming a first version of one title and a second reproduction path forming a second version of one title, and at least a portion of the first and second reproduction paths are configured in parallel so either the first or the second reproduction path is reproduced

~~when a version is reproduced wherein the first reproduction path is not reproduced during reproduction of the second reproduction path and the second reproduction path is not reproduced during reproduction of the first reproduction path,~~

wherein the first reproduction path and the second reproduction path include a common path portion referring a same clip file; and

recording a plurality of playlists including reproduction information of the multi-path video data in a navigation information area on the recording medium,

wherein the number of the playlists is the same as the number of the reproduction paths of the multi-path video data.

16. (Currently Amended) A method for recording a data structure for managing reproduction of video data on a recording medium, the method comprising:

recording multi-path video data in a data area on the recording medium so as to correspond to a plurality of reproduction paths forming different versions of one title to be reproduced exclusively,

the plurality of reproduction paths including a first reproduction path forming a first version of one title and a second reproduction path forming a second version of one title, ~~and at least a portion of the first and second reproduction paths are configured in parallel so either the first or the second reproduction path is reproduced when a version is reproduced wherein the first reproduction path is not reproduced during reproduction of the second reproduction path and the second reproduction path is not reproduced during reproduction of the first reproduction path,~~

wherein the first reproduction path and the second reproduction path include a common path portion referring a same clip file; and

recording a playlist including reproduction information of the multi-path video data in a navigation information area on the recording medium,

wherein the playlist includes a plurality of playitems identifying a plurality of different clip files of the multi-path video data ~~for different reproduction paths~~, respectively.

17. (Cancelled)

18. (Currently Amended) An apparatus for recording a data structure for managing reproduction of video data on a recording medium, the apparatus comprising:

an optical pickup configured to record data on the recording medium; and

a controller, operably coupled to the optical pickup, configured to control the optical pickup to record multi-path video data in a data area on the recording medium so as to correspond to a plurality of reproduction paths forming different versions of one title to be reproduced exclusively and a plurality of playlists including reproduction information of the multi-path video data in a navigation information area on the recording medium, such that the number of the playlists is the same as the number of the reproduction paths of the multi-path video data,

wherein the plurality of reproduction paths include a first reproduction path forming a first version of one title and a second reproduction path forming a second version of one title, and at least a portion of the first and second reproduction paths are configured in parallel so either the first or the second reproduction path is reproduced when a version is reproduced ~~the first reproduction path not reproduced during reproduction of the second reproduction path and the second reproduction~~

~~path not reproduced during reproduction of the first reproduction path~~, and the first reproduction path and the second reproduction path include a common path portion referring a same clip file.

19. (Currently Amended) An apparatus for recording a data structure for managing reproduction of video data on a recording medium, the apparatus comprising:

an optical pickup configured to record data on the recording medium; and

a controller, operably coupled to the optical pickup, configured to control the optical pickup to record multi-path video data in a data area on the recording medium so as to correspond to a plurality of reproduction paths forming different versions of one title to be reproduced exclusively and a playlist including reproduction information of the multi-path video data in a navigation information area on the recording medium, such that the playlist includes a plurality of playitems identifying a plurality of different clip files of the multi-path video data for different reproduction paths, respectively,

wherein the plurality of reproduction paths include a first reproduction path forming a first version of one title and a second reproduction path forming a second version of one title, and at least a portion of the first and second reproduction paths are configured in parallel so either the first or the second reproduction path is reproduced when a version is reproduced ~~the first reproduction path not reproduced during reproduction of the second reproduction path and the second reproduction path not reproduced during reproduction of the first reproduction path~~, and the first reproduction path and the second reproduction path include a common path portion referring a same clip file.

20. (Cancelled)

21. (Currently Amended) A method for reproducing a data structure for managing reproduction of video data recorded on a recording medium, the method comprising:

reading at least one playlist including reproduction information of multi-path video data on the recording medium, wherein the multi-path video data corresponds to a plurality of reproduction paths forming different versions of one title to be reproduced exclusively,

wherein the plurality of reproduction paths include a first reproduction path forming a first version of one title and a second reproduction path forming a second version of one title, and at least a portion of the first and second reproduction paths are configured in parallel so either the first or the second reproduction path is reproduced when a version is reproduced the first reproduction path is not reproduced during reproduction of the second reproduction path and the second reproduction path is not reproduced during reproduction of the first reproduction path,

wherein the first reproduction path and the second reproduction path includes a common path portion referring a same clip file;

and

reproducing selected one of the reproduction paths of the multi-path video data based on the read reproduction information.

22. (Currently Amended) An apparatus for reproducing a data structure for managing reproduction of video data recorded on a recording medium, the apparatus

comprising:

an optical pickup configured to reproduce data recorded on the recording medium; and

a controller, operably coupled to the optical pickup configured to control the optical pickup to read at least one playlist including reproduction information of multi-path video data on the recording medium, wherein the multi-path video data corresponds to a plurality of reproduction paths forming different versions of one title to be reproduced exclusively, and to reproduce selected one of the reproduction paths of the multi-path video data based on the read reproduction information,

wherein the plurality of reproduction paths include a first reproduction path forming a first version of one title and a second reproduction path forming a second version of one title, and at least a portion of the first and second reproduction paths are configured in parallel so either the first or the second reproduction path is reproduced when a version is reproduced ~~the first reproduction path not reproduced during reproduction of the second reproduction path and the second reproduction path not reproduced during reproduction of the first reproduction path~~, and the first reproduction path and the second reproduction path include a common path portion referring a same clip file.

23. (Previously Presented) The method of claim 15, wherein each of the playlists is associated with all of the clip files for one path of the plurality of reproduction paths.

24. (Previously Presented) The method of claim 15, wherein each of the playlists includes a plurality of playitems, different playitems included in the different playlists

identifies the same clip file referred by the common path portion of the plurality of reproduction paths.

25. (Currently Amended) The method of claim 16, wherein ~~the playlist further includes~~ at least one of the plurality of playitems~~playitem~~ identifying the clip file referred by the common path portion of the plurality of reproduction paths.

26. (Cancelled)

27. (Previously Presented) The apparatus of claim 18, wherein each of the playlists includes a plurality of playitems, different playitems included in the different playlists identifies the same clip file referred by the common path portion of the plurality of reproduction paths.

28. (Cancelled)

29. (Previously Presented) The method of claim 21, wherein the number of the playlists is the same as the number of the reproduction paths of the multi-path video data.

30. (Previously Presented) The method of claim 29, wherein each of the playlists is associated with all of the clip files for one path of the plurality of reproduction paths.

31. (Previously Presented) The method of claim 29, wherein each of the playlists includes a plurality of playitems, different playitems included in the different playlists

identifies the same clip file referred by the common path portion of the plurality of reproduction paths.

32. (Currently Amended) The method of claim 21, wherein the playlist includes a plurality of playitems identifying a plurality of different clip files of the multi-path video data for different reproduction paths, respectively.

33. (Currently Amended) The method of claim 32, wherein ~~the playlist further includes~~ at least one of the plurality of playitems playitem identifying the clip file referred by the common path portion of the plurality of reproduction paths.

34. (Previously Presented) The apparatus of claim 22, wherein the number of the playlists is the same as the number of the reproduction paths of the multi-path video data.

35. (Cancelled)

36. (Previously Presented) The apparatus of claim 34, wherein each of the playlists includes a plurality of playitems, different playitems included in the different playlists identifies the same clip file referred by the common path portion of the plurality of reproduction paths.

37. (Currently Amended) The apparatus of claim 22, wherein the playlist includes a plurality of playitems identifying a plurality of different clip files of the multi-path video data for different reproduction paths, respectively.

38. (Cancelled)

39. (Previously Presented) The computer readable recording medium of claim 1, wherein the navigation information area further stores a parental control information for reproducing permitted parental level of the title.

40. (Previously Presented) The computer readable recording medium of claim 1, wherein one of the versions of the title is a parental control version of the title.

41. (New) The computer readable recording medium of claim 1, having a general information file identifying a file name of a playlist.

42. (New) The computer readable recording medium of claim 5, having a general information file identifying a file name of a playlist.

<End of Claims Listing>